FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	00000000 00000000 00000000		RRRRRRRR RRRRRRRR RRRRRRRR	RRRR	RRRRR	RRRRRRR RRRRRRR RRRRRRR		LLL LLL LLL
FFF		000	RRR	RRR	RRR	RRR	TTT	LLL
FFF		000	RRR	RRR	RRR	RRR	TTT	LLL
FFF		000	RRR	RRR	RRR	RRR	TTT	LLL
FFF		000	RRR	RRR	RRR	RRR	TTT	LLL
FFF		000	RRR	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	RRR	TTT	LLL
FFFFFFFFFF	000	000	RRRRRRRR	RRRR	RRRRR	RRRRRRR	TTT	LLL
FFFFFFFFFF	000	000	RRRRRRRR	RRRR	RRRRR	RRRRRRR	TTT	LLL
FFFFFFFFFF	000	000	RRRRRRRR	RRRR	RRRRR	RRRRRRR	TTT	LLL
FFF		000	RRR RR	R	RRR	RRR	TTT	LLL
FFF	000	000	RRR RR	R	RRR	RRR	TTT	LLL
FFF	000	000	RRR RR	R	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	RRR	TTT	LLL
FFF		000	RRR	RRR	RRR	RRR	TTT	LLL
FFF	000	000	RRR	RRR	RRR	RRR	TTT	LLL
FFF	00000000		RRR	RRR	RRR	RRR	TTT	
FFF	00000000		RRR	RRR	RRR	RRR	TTT	
FFF	00000000		RRR	RRR	RRR	RRR	TTT	

FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF	000000 000000 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00 00	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR	TTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT	\$	NN NN NN NN NN NN NNN NN NNNN NN NN NN N
		\$				

FC

- FORTRAN WRITE Sequential NAMELIST 16-SEP-1984 00:06:44 VAX/VMS Macro V04-00 FORSWRITE SN Table of Contents Page 0 (<u>2)</u> (3) 59 91 DECLARATIONS FORSWRITE\_SN - Write sequential NAMELIST

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16-SEP-1984 00:06:44 6-SEP-1984 11:02:12 VAX/VMS Macro V04-00 [FORRTL.SRC]FORWRITSN.MAR:1

(1)

.TITLE FORSWRITE\_SN - FORTRAN WRITE Sequential NAMELIST ; File: FORWRITSN.MAR, Edit: SBL1002

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; FACILITY: FORTRAN Language Support

ABSTRACT:

This module contains FOR\$WRITE\_SN, the user interface to the FORTRAN I/O Run-Time Library which begins a WRITE NAMELIST statement.

ENVIRONMENT: Runs at any access mode, AST Reentrant

MAINTENANCE NOTE:

The transfer vector (RTLVECTOR+ALLGBL) must have the following:

.TRANSFER FORSWRITE\_SN .MASK FORSSIO BEG JMP FORSWRITE\_SN+2

This puts the correct mask in entry vector, that is FOR\$\$10 BEG entry mask. furthermore this module must only use RO and R1 since any other register might not be in the entry mask for FOR\$\$IO\_BEG.

AUTHOR: Steven B. Lionel, CREATION DATE: 21-July-1980

MODIFIED BY:

52 : M 53 : 1 55 : 1 56 : --1-001 - Original. SBL 21- July-1980

1-002 - Second columnation entry point name accidentally left off; replace. SBL 11-Nov-1980

0000 0000

```
16-SEP-1984 00:06:44 VAX/VMS Macro V04-00 Page 6-SEP-1984 11:02:12 [FORRTL.SRC]FORWRITSN.MAR;1
                                                - FORTRAN WRITE Sequential NAMELIST
FORSWRITE_SN
1-002
                                                DECLARATIONS
                                                                   .SBTTL DECLARATE SO : 61 : LIBRARY MACRO CALLS:
                                                       0000
                                                                                    .SBTTL DECLARATIONS
                                                       ŎŎŎŎ
                                                                   62
                                                       0000
                                                       0000
                                                                                   $ISBDEF
                                                                                                                       ; Intra-statement block definitions
                                                                  64:
65: EXTERNAL DECLARATIONS:
66:
67: .DSABL GBL
68: .EXTRN FOR$$10_E
                                                       0000
                                                       0000
                                                       0000
                                                       0000
                                                                                                                        ; force all external symbols to be declared
                                                                                    .EXTRN FOR$$IO_BEG : Common initialization routine
.EXTRN FOR$$UDF_WNO, FOR$$UDF_WN9 : To pull in weak references
.EXTRN FOR$$REC_WSNO, FOR$$REC_WSN1 : To pull in weak references
                                                       0000
                                                       0000
                                                                   0000
                                                       0000
                                                       0000
                                                                       : MACROS:
                                                       0000
                                                                                   NONE
                                                                        : EQUATED SYMBOLS:
                                                       0000
0000
0000
                                                                                   NONE
                                                                          OWN STORAGE:
                                                0000
0000
0000
0000
0000
0000
                                                                                   NONE
```

.PSECT \_FOR\$CODE PIC, USR, CON, REL, LCL, SHR, -

EXE, RD, NOWRT, LONG

PSECT DECLARATIONS:

88

```
- FORTRAN WRITE Sequential NAMELIST 16-SEP-1984 00:06:44 VAX/VMS Macro V04-00 FOR$WRITE_SN - Write sequential NAMELIST 6-SEP-1984 11:02:12 [FORRTL.SRC]FORWRITSN.MAR;1
                                                                                                                                        (3)
                      0000
0000
0000
                                              .SBTTL FORSWRITE_SN - Write sequential NAMELIST
                                   : ++ FUNCTIONAL DESCRIPTION:
                                94
95
96
97
                                             This routine begins a FORTRAN WRITE NAMELIST statement.
                                      CALLING SEQUENCE:
                                98
99
                                              CALL FOR$WRITE_SN (unit.rl.v, namelist.rlu.ra [, err_eql.j.r])
                              100
101
102
103
104
105
                                      FORMAL PARAMETERS:
                                             unit
                                                                  - logical unit number
                                             namelist

    address of namelist descriptor block (see below)

                      ŎŎŎŎ
                                             err_eql
                                                                  - address of instruction to branch to if an error occurs
                               106
                                      IMPLICIT INPUTS:
                              108
                      ŎŎŎŎ
                                             NONE
                      ŎŎŎŎ
                               110
                      ŎŎŎŎ
                               111
                                      IMPLICIT OUTPUTS:
                      0000
                              112
                      ÖÖÖÖ
                                             NONE
                      0000
0000
0000
0000
0000
                               114
                                      COMPLETION STATUS:
                              116
                                             NONE
                              118
                                      SIDE EFFECTS:
                              0000
                                             One WRITE NAMELIST statement will be executed.
                      0000
                      0000
                      0000
                      0000
0000
0002
0005
               0000
                                                       FOR$$10_BEG
#ISB$K_$T_TY_WSN, RO
G^FOR$$10_BEG+2
                                                                                       Move statement type
0000000216
                                                                                       Jump to FOR$$10_BEG
                      000B
```

; End of module FOR\$WRITE\_SN

000B

```
FORSWRITE SN
                                                                                16-SEP-1984 00:06:44 VAX/VMS Macro V04-00 6-SEP-1984 11:02:12 [FORRTL.SRC]FORWRITSN.MAR;1
                                   - FORTRAN WRITE Sequential NAMELIST
Symbol table
                                                                                                                                              (3)
FOR$$10_BEG
                                                     00
                                    ******
FORSSREC WSNO
FORSSREC WSN1
                                    ******
                                                     ŎŎ
                                    ******
                                                     ŎŎ
FORSSUDF WNO
                                                     ŎŎ
                                    ******
FORSSUDF WN9
                                                     ŎŎ
                                    ******
FORSWRITE_SN
                                    00000000
                                                     01
ISBSK_ST_TY_WSN
                                  = 00000013
                                                       Psect synopsis!
PSECT name
                                   Allocation
                                                         PSECT No.
                                                                     Attributes
                                                         00 ( 0.)
  ABS
                                   00000000 (
                                                   0.)
                                                                     NOPIC
                                                                              USR
                                                                                     CON
                                                                                                  LCL NOSHR NOEXE NORD
                                                                                                                          NOWRT NOVEC BYTE
FOR$CODE
                                                                                    CON
                                   000000B (
                                                  11.)
                                                         01 ( 1.)
                                                                       PIC
                                                                              USR
                                                                                           REL
                                                                                                       SHR EXE
                                                                                                                     RD
                                                                                                                          NOWRY NOVEC LONG
                                                   Performance indicators !
Phase
                                                            Elapsed Time
                           Page faults
                                            CPU Time
Initialization
                                                            00:00:00.91
                                            00:00:00.09
                                   121
122
Command processing
                                            00:00:00.50
                                                            00:00:04.09
Pass 1
                                            00:00:01.13
                                                            00:00:04.89
                                                            00:00:00.47
Symbol table sort
                                            00:00:00.17
                                    38
Pass 2
                                                            00:00:01.81
                                            00:00:00.39
Symbol table output
                                            00:00:00.02
                                                            00:00:00.02
Psect synopsis output
                                            00:00:00.02
                                                            80.00:00:00
Cross-reference output
                                            00:00:00.00
                                                            00:00:00.00
Assembler run totals
                                            00:00:02.32
                                                            00:00:12.27
The working set limit was 1050 pages. 5742 bytes (12 pages) of virtual memory were used to buffer the intermediate code.
There were 10 pages of symbol table space allocated to hold 168 non-local and 0 local symbols.
130 source lines were read in Pass 1, producing 8 object records in Pass 2.
8 pages of virtual memory were used to define T macro.
                                                ! Macro library statistics !
Macro library name
                                                 Macros defined
_$255$DUA28:[FORRTL.OBJ]FORRTL.MLB;1
_$255$DUA28:[SYSLIB]STARLET.MLB;2
                                                             0
TOTALS (all libraries)
164 GETS were required to define 1 macros.
There were no errors, warnings or information messages.
MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL, TRACEBACK)/LIS=LIS$: FORWRITSN/OBJ=OBJ$: FORWRITSN MSRC$: FORWRITSN/UPDATE=(ENH$: FORWRITSN)+LI
```

0185 AH-BT13A-SE

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